

# RAV232 Rako RS232 to Rakom RF Interface – Installation and Operating Instructions.

## General

The Rako RS232 to Rakom RF interface is designed to be connected to the serial output of a PC or RS232 output from audio visual controllers. This can be used from a PC to set up and program a Rako system in conjunction with the Rakosoft software package or stand alone as part of an audio visual installation.

Modules are supplied fitted with an internal aerial. For transmission distances of greater than 15m or for audio visual installations the external aerial provided should be fitted.

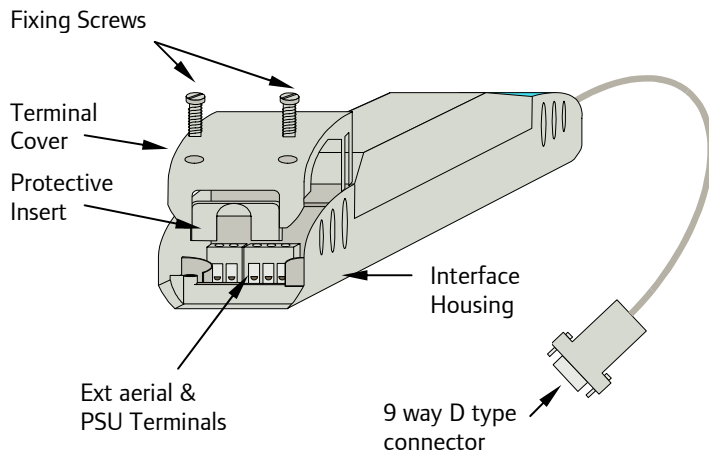


Fig 1.

## Front View of Components

## Installation

Before commencing installation of the Rako RS232 interface module first read this instruction manual carefully. Rako Controls Ltd accepts no responsibility for any damage or injury caused by incorrect installation of a Rako product.

The Rako RS232 to Rakom radio interface is designed to be used in one of two ways. The first is for the set-up and programming of the Rako system from a PC and second, as part of an audio visual system.

### Using the RAV232 with a PC

The RAV232 can be used to set-up and program a Rako system in conjunction with the RASOFT software package (see separate software user guide). The 9 way D type connector is plugged into the serial out put or USB port (using a separate serial to USB adaptor) on your PC. Depending on your PC, sufficient power will be derived without the requirement for an additional power supply. The RAV232 is provided with an in built aerial so providing the distances are within 15m the external aerial is not required. For greater distances remove the internal aerial connection and fit the external aerial as detailed in Fig 3.

Your Rako wireless interface is now ready for operation.

## Note:

When the RAV232 is powered up the blue LED remains on and goes off when a message is being sent. If this does not occur an external power supply maybe required. Rako ref: RAPSU or equivalent. (please contact Rako for further details. Tel 01634 226666)

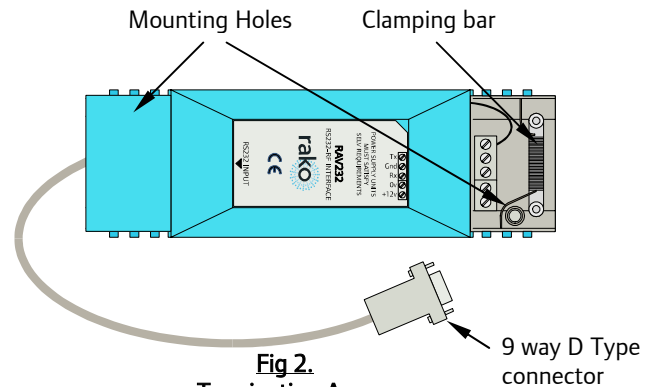


Fig 2.  
Termination Area

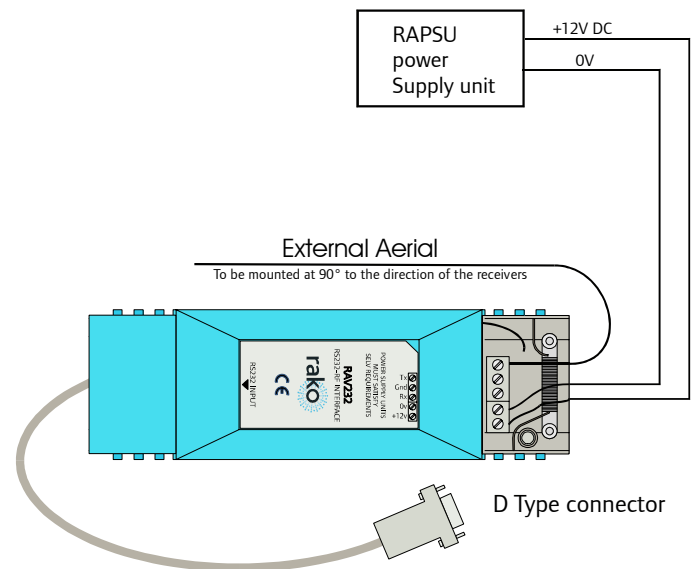


Fig 3.  
Connection Detail

### Using the RAV232 as part of an Audio Visual System

The RAV232 can be used as a wireless interface from the RS232 output of an audio visual controller to the Rako lighting control system. It is recommended that in this mode, the external power supply unit (Rako ref: RAPSU or equivalent) is used and that the external aerial be fitted, see Fig 3.

## Baud Rates

The RAV232 is configured to run at a Baud rate of 9600 bps. This can be changed to 1200 bps using Rasoft or Hyperterminal. To change the Baud rate using Hyperterminal connect the RAV232 and enter the following command: Baud 12.

To convert the unit back to operation at 9600 enter: Baud 96.  
To activate the changes the unit must then undergo a power cycle by disconnecting the power and then reconnecting before use.

The same function can be performed from RASOFT, with the RAV232 connected open the diagnostic window in HELP/DIAGNOSTIC and type either Baud 12 or Baud 96 in the command line and then hit enter or carriage return.

Many functions within the Rako system can be selected from the AV controller using the configuration and ASCII codes as detailed in the Rako RS232 Command Line document. (for further information please contact Rako controls on Tel: 01634 226666 or visit our website: [www.rakocontrols.com](http://www.rakocontrols.com))